

CLAIMS

[1] A binder for an electric double layer capacitor, comprising; a polymer (A), containing an acrylate monomer unit, and having two or more glass transition temperatures.

[2] The binder for the electric double layer capacitor according to claim 1, wherein the polymer (A) is a complex.

[3] The binder for the electric double layer capacitor according to claim 2, wherein the complex is a fine particle having a core-shell structure obtained by polymerizing stepwise a monomer mixture containing an acrylate monomer.

[4] A composition for an electric double layer capacitor, containing the binder as claimed in claim 1, and an active material for an electrode.

[5] The composition for the electric double layer capacitor according to claim 4, further containing an electroconductivity additive.

[6] The composition for the electric double layer capacitor according to claim 4, further containing water.

[7] A method for producing the composition for an

electric double layer capacitor as claimed in claim 4, wherein;

a binder for an electric double layer capacitor comprising the polymer (A) and an active material for an electrode are mixed with each other in a solvent to yield a dispersion, and

the dispersion is granulated by spray drying method.

[8] An electrode for an electric double layer capacitor, wherein the composition for the electric double layer capacitor as claimed in claim 4 is stacked on a current collector.

[9] A method for producing the electrode for the electric double layer capacitor as claimed in claim 8, comprising the steps of:

applying, onto a current collector, a composition for an electric double layer capacitor containing a binder for an electric double layer capacitor comprising the polymer (A), an active material for an electrode, and water, and; then drying the composition, thereby forming an electrode layer on the current collector.

[10] A method for producing the electrode for an electric double layer capacitor as claimed in claim 8, comprising the steps of:

dry-molding the composition for the electric double layer

capacitor containing the binder for the electric double layer capacitor comprising the polymer (A), and the active material for an electrode, and;

then forming an electrode layer on the current collector.

[11] An electric double layer capacitor, comprising the electrode as claimed in claim 8, an electrolytic solution, and a separator.